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OXC-1485
Copy 6 of 8.

24 March 1961

SUPPLEMENTAL ACTIVITY PROGRAM [redacted] 25X1A2g

Reference: OXC-1044, 7 November 1960

1. PURPOSE: 25X1A2g

To fund a requirement for an electronics computer at [redacted]

2. DESCRIPTION OF WORK OR SERVICES REQUIRED:

25X1A2g [redacted] to procure, modify and assemble components and equipment necessary to install a transistorized portable electronic computer at [redacted] 25X1A1a with a capability similar, yet superior to the Digital Equipment Corporation computer Model #DEC-PDP-3; cost, [redacted]. The computer modification, improvement and assembly work will be accomplished by [redacted] 25X1A5a2 and [redacted] technicians. 25X1A5a2 25X1A2g

3. EXPECTED ADDITIONAL WORK OR RELATED WORK OR SERVICES: None.

4. TOTAL ESTIMATED [redacted] ACTIVITY PROGRAM COSTS: 25X1A2g

a. Previously approved firm estimated costs: (OXC-1044, 7 November 1960) 25X1A1a [redacted]

b. Firm estimated cost, noted in paragraph 2, above, and for which approval is being requested: 25X1A1a [redacted]

c. SOURCE OF FUNDS:

DFD FY 1961 budget contained the following amount for [redacted] requirements: 25X1A2g 25X1A1a [redacted]

COMPTROLLER, DFD-DD/P

5. DELIVERY SCHEDULE OR PERIOD OF PERFORMANCE:

The computer is scheduled to be ready for operation in about seven to eight months after approval is granted to proceed.

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25X1A5a2 25X1A5a2

6. REMARKS:

a. [redacted] have given assurances that they will schedule their computer assembly work on a non-interference basis with other priority tasks assigned them, and yet complete the installation within 7-8 months. 25X1A2g

25X1A5a2

b. [redacted] Technical Director of [redacted] strongly endorses the foregoing computer requirement and approach to provide [redacted] with an economical and specially tailored computer facility. 25X1A2g

25X1A2g

c. A secure computer facility will enable [redacted] to perform rapid computations of a "Monte Carlo" type to check out desired OXCART flight paths during test and operational phases of the program and to provide informed estimates as to the probability of detection and tracking. The equipment can be expected to produce about 1,000 measurements per second during a test. One hour's testing will produce about 3 million measurements. The job of collecting, sorting and digesting this data manually would take months. A computer will finish the job in an hour or two. It will provide complete flexibility in presentation of results. It also will allow immediate rescheduling if the data indicates that this is desirable. This should improve the use of OXCART test time and reduce costs. At the conclusion of ground measurements of OXCART cross sections, there will be available rather complete data on all aspects of the aircraft. This information can be utilized, by computer methods, to predict, as accurately as possible, the impact of any desired flight path on the Soviet air defense system. This would involve the use of available data on cross sections and radar parameters and the use of "Monte Carlo" techniques for handling the statistical variables. Dry-run missions at the rate of 1000-2000 nautical miles of flight path per minute can be accomplished utilizing computer techniques. This very rapid rate would enable testing the effects of varying alert levels, penetration tactics, and radar sensitivity, to name only a few. The over-all quality of the simulation would be far better than with manual techniques, and in addition, the opportunity to vary parameters would be afforded to give an indication of how accurate predictions are.

d. In addition to the foregoing, the presence of a computer at [redacted] would have advantages for use on other programs and serve as a distinct attraction to scientific/technical staff personnel now aboard and to prospective recruits.

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1 Attachment:
Recapitulation of Funding.

25X1A9a

[redacted]
Chief, Development Branch, DPD

CONCURRENCE:

[redacted] 25X1A9a
Colonel USAF
Acting Chief, DPD

Recommendation: To obligate and transfer funds as indicated in paragraph 4.b., above, to [redacted]

25X1A2g

APPROVED: or RECOMMENDED FOR APPROVAL:

(Signed) Richard M. Bissell, Jr.
RICHARD M. BISSELL, JR.
Deputy Director (Plans)

DATE: 29 MAR 1961

/s/
ALLEN W. DULLES
Director

DATE: 10 April 61

7. CONDITIONS OF APPROVAL:

C/DB/DPD-DD/P:JP:hh
24 March 1961

Distribution:
cy 1 - Contracts/DPD(after sigt.)
2 - DD/P
3 - AC/DPD
4 - C/DB/DPD
5 - FIN/DPD
6 - Asst.Ch/DPD
7 - RI/DPD
8 - C/DB(Chron)

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25X1A1a
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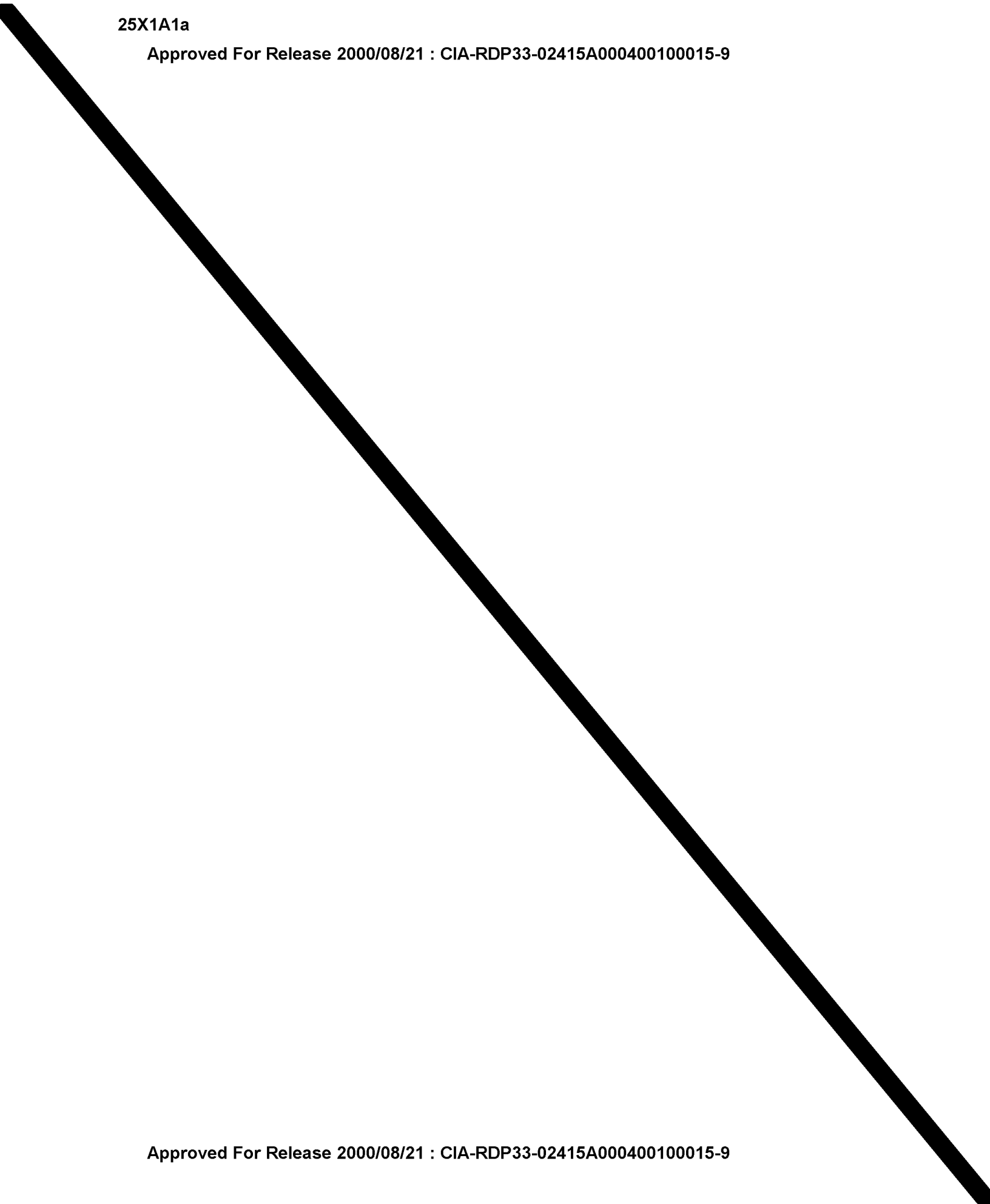

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